CARDIAC RHYTHM MANAGEMENT SYSTEM AND METHOD USING TIME BETWEEN MITRAL VALVE CLOSURE AND AORTIC EJECTION

ABSTRACT

This document discusses cardiac rhythm management systems and methods using the MVC-to-AE time between mitral valve closure ("MVC") and aortic ejection ("AE") of the same heart contraction, sometimes referred to as the isovolumic contraction time ("ICVT"). In one example, the MVC-to-AE time is used for predicting which patients will respond to cardiac resynchronization therapy (CRT), or other therapy. In another example, the MVC-to-AE time is used as a wellness indicator. In a further example, the MVC-to-AE time is used to select or control a therapy or therapy parameter. In one example, the MVC and AE are obtained using an accelerometer signal, however, plethysmography, tonometry, or other techniques may alternatively be used.

"Express Mail" mailing label number: <u>EV019095623US</u>
Date of Deposit: <u>March 13, 2002</u>
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